SST Antibody / Somatostatin [clone 31S68] (FY12635)

Catalog No.	Formulation	Size
FY12635	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	31S68
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	P61278
Applications	Immunohistochemistry : 1:50-1:200
Limitations	This SST antibody is available for research use only.

Description

SST antibody detects somatostatin, a peptide hormone encoded by the SST gene. Somatostatin exists in two biologically active forms, somatostatin 14 and somatostatin 28, generated by alternative processing of a larger precursor. These peptides act as inhibitory hormones and neurotransmitters, regulating secretion of growth hormone, insulin, glucagon, and numerous gastrointestinal peptides. Somatostatin achieves its effects by binding to somatostatin receptors, a family of G protein coupled receptors expressed across many tissues.

SST antibody is widely used in endocrinology, neuroscience, and cancer research. In the pituitary gland, somatostatin regulates growth hormone release. In the pancreas, it modulates insulin and glucagon secretion. In the gastrointestinal tract, it suppresses acid secretion and motility. By detecting somatostatin, researchers can evaluate how this peptide coordinates endocrine and paracrine regulation across multiple organ systems.

Immunohistochemistry maps somatostatin producing cells in pancreatic islets, hypothalamus, and gastrointestinal mucosa. Immunofluorescence reveals somatostatin localization in neurons and endocrine cells, while ELISA enables quantitative analysis in serum or tissue extracts. These techniques make SST antibody a versatile tool for endocrine and neurological studies.

Somatostatin has clinical relevance as both a diagnostic marker and therapeutic target. Elevated somatostatin expression is observed in neuroendocrine tumors, while synthetic analogs such as octreotide are used to treat acromegaly, carcinoid syndrome, and other hormone secreting tumors. By applying SST antibody, scientists can investigate peptide hormone regulation, tumor biology, and therapeutic strategies targeting somatostatin pathways.

SST antibody from NSJ Bioreagents provides strong specificity for analyzing somatostatin biology. Its performance across applications ensures accurate detection of this important inhibitory peptide.

Application Notes

Optimal dilution of the SST antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Somatostatin 28 was used as the immunogen for the SST antibody.

Storage

Store the SST antibody at -20oC.

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